INDEX TO VOLUME 45

AUTHORS INDEX

In the index, following the author's name, the title of the subject is given as it appeared in the JOURNAL.

A

ABRAHAMS, O. L. (*See* BOTHWELL, ELLIS, VAN DOORN-WITTKAMPF, AND ABRAHAMS), 167

ADAMS, WILLIAM S. (*See* CRADDOCK, ADAMS, PERRY, AND LAWRENCE), 906

—. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

ADELSON, EDWARD, CROSBY, WILLIAM H., AND ROEDER, WILLIAM H. (With the technical assistance of Thibeault, Carol E.) Further studies of a hemostatic defect caused by intravenous dextran, 441

AFFELDT, JOHN E. (*See* COLLIER, AFFELDT, AND FARR), 526

ALVERSON, GABRIELE. (*See* KNOWLES, ALVERSON, AND RUBENSTEIN), 463

ALVING, ALF S. (*See* BEUTLER, DERN, AND ALVING), 40

—. (*See* BEUTLER, DERN, FLANAGAN, AND ALVING), 286

—. (*See* DERN, BEUTLER, AND ALVING), 30

ANDERSCH, MARIE A., AND BARBUSCA, FRANCES. A graphic method for the conversion of transmission curves to a corrected density curve for the calculation of proteins separated by paper electrophoresis, 958

ANDERSON, PAUL O., AND CINCOTTI, JOHN J. An anesthesia-bronchospirometer valve, 493

ANDRUS, STEPHEN B. (*See* WADDELL, GEYER, OLSEN, ANDRUS, AND STARE), 697

ARMSTRONG, S. H., JR., KUKRAL, JOHN, HERSHMAN, JEROME, MCLEOD, KATHARINE, WOLTER, JANET, AND BRONSKY, DAVID. The persistence in the blood of the radioactive label of albumins, gamma globulins, and globulins of intermediate mobility. II. Comparison of gamma globulins labeled with S^{35} and I^{131} in the same subjects, 51

ASCH, MARTIN. (*See* PETERSON, ASCH, AND BOAK), 778

ATMADAJA, R. SOEKARDI. (*See* GAN, K. H.), 141

B

BAIN, J. A. (*See* BROWN AND BAIN), 822

BAKER, MARY. (*See* CRADDOCK, ADAMS, PERRY, AND LAWRENCE), 906

—. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

BARBUSCA, FRANCES. (*See* ANDERSCH AND BARBUSCA), 958

BAUM, GERALD L. (*See* ROBBINS, BAUM, AND SCHWARZ), 546

BAYNE, GILBERT M. (*See* BOGER, STRICKLAND, BAYNE, AND GYLFE), 478

BEAN, WILLIAM B. (*See* SCHEDL, BEAN, STEVENSON, AND SCHUMACHER), 191

BEARN, A. G., AND KUNKEL, H. G. Metabolic studies in Wilson's disease using Cu^{64}, 623

BECKER, GERALD H., RALL, THEODORE W., AND GROSSMAN, MORTON I. Effect of heparin on the distribution of intravenously administered C^{14}-labeled soybean oil emulsion in rats, 786

BERNSTEIN, LIONEL M. (*See* JOHNSTON AND BERNSTEIN), 109

BESSMAN, SAMUEL P., AND LAYNE, ENNIS C., JR. A rapid procedure for the determination of lead in blood or urine in the presence of organic chelating agents, 159

BEUTLER, ERNEST. (*See* DERN, BEUTLER, AND ALVING), 30

—. (*See* WEINSTEIN AND BEUTLER), 616

—, DERN, RAYMOND J., AND ALVING, ALF S. The hemolytic effect of primaquine. VI. An in vitro test for sensitivity of erythrocytes to primaquine, 40

—, —, FLANAGAN, C. LARKIN, AND ALVING, ALF S. The hemolytic effect of primaquine. VII. Biochemical studies of drug-sensitive erythrocytes, 286

BIE, TJIOE SWIE. (*See* GAN, K. H.), 141

BILLING, BARABARA H., HASLAM, RUTH M., HEIN, DAVID E., CONLON, HAROLD J., HAMILTON, DAVID L., MINDRUM, GORDON M., AND SCHIFF, LEON. (With the technical assistance of Dohm, Lila, and Starr, Charlene.) Serum and liver lipids in patients with and without liver disease, 363

BLONDHEIM, S. H. The relationship between the albumin concentration of serum and its dye-binding capacity, 740

BOAK, RUTH A. (*See* PETERSON, ASCH, AND BOAK), 778

BOGER, WILLIAM P., STRICKLAND, S. CLYDE, BAYNE, GILBERT M., AND GYLFE, JULINA. Probenecid and salicylates: the question of interaction in terms of penicillin excretion, 478

BOND, E. E. (*See* FALLER, BOND, PETTY, AND PASCALE), 759
—. (*See* FALLER, PETTY, LAST, PASCALE, AND BOND), 748
BOONE, BERT R. (*See* NOBLE, BOONE, DODGE, AND BRODEUR), 489
BOTHWELL, T. H., ELLIS, B. C., VAN DOORN-WITTKAMPF, H. VAN W., AND ABRAHAMS, O. L. Radioiron studies in hemochromatosis, 167
BOWEN, H. F. (*See* STEWART, BOWEN, AND CULLERTON), 653
BREMER, RITA. (*See* LEVIN, DAUGHADAY, AND BREMER), 833
BRODEUR, ARMAND E. (*See* NOBLE, BOONE, DODGE, AND BRODEUR), 489
BRONSKY, DAVID. (*See* ARMSTRONG, KUKRAL, HERSHMAN, MCLEOD, WOLTER, AND BRONSKY), 51
—. (*See* PASCALE, DUBIN, BRONSKY, AND HOFFMAN), 771
BROOKS, LAURA. (*See* INKLEY, BROOKS, AND KRIEGER), 841
BROSNAHAN, MARY LOUISE. (*See* FRANK AND CARR), 973, 977
BROWN, HAROLD, ILIYA, A. A., PRICE, P. B., AND RAMBO, O. N., JR. Effect of acute renal failure on the plasma volume and volume of packed red cells in the dog, 102
BROWN, J. H. U., AND BAIN, J. A. A simple Warburg calibrator, 822
BUNN, PAUL A., ROBINSON, FRANCES, AND OSBORNE, WINIFRED. Use of chick embryo as medium for rapid cultivation of tubercle bacilli, 658
BURCH, G. E. (*See* RAY, THREEFOOT, AND BURCH), 408
—. (*See* THREEFOOT, BURCH, AND RAY), 313
—. (*See* THREEFOOT, RAY, AND BURCH), 395
—, THREEFOOT, S. A., AND RAY, C. T. The rate of disappearance of Rb^{86} from the plasma, the biologic decay rates of Rb^{86}, and the applicability of Rb^{86} as a tracer of potassium in man with and without chronic congestive heart failure, 371
BURDICK, MARY P. (*See* ROGERS, BURDICK, AND BURNETT), 87
BURNETT, GEORGE R. (*See* ROGERS, BURDICK, AND BURNETT), 87

C

CALLENDER, SHEILA. (*See* DUBACH, MOORE, AND CALLENDER), 599
CAMPOS, J. V. MARTINS, PONTES, J. FERNANDES, HOENEN, W., AND KUSMINSKI, N. The effectiveness of antibacterial drugs upon the gram-negative intestinal flora, 455
CARR, MARIE H. (*See* FRANK AND CARR), 973, 977
CASTANERA, T. J., KIMELDORF, D. J., AND JONES, D. C. An apparatus for measurement of activity in small animals, 825
CINCOTTI, JOHN J. (*See* ANDERSON AND CINCOTTI), 493
CLATANOFF, DALLAS V. (*See* SCHILLING, CLATANOFF, AND KORST), 926
COLLIER, CLARENCE R., AFFELDT, JOHN E., AND FARR, ANDREW F. Continuous rapid infrared CO_2 analysis, 526
CONLON, HAROLD J. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363
CONN, JEROME W. (*See* KAINE, SELTZER, AND CONN), 247
—. Presidential address, Central Society for Clinical Research, 27th annual meeting, October 29, 1954. Part I. Painting background. Part II. Primary aldosteronism, a new clinical syndrome, 3
—. Primary aldosteronism (progress report), 661
CRADDOCK, CHARLES G., JR., ADAMS, WILLIAM S., PERRY, SEYMOUR, AND LAWRENCE, JOHN S. (With the technical assistance of Baker, Mary, and Paul, Gloria.) The dynamics of platelet production as studied by a depletion technique in normal and irradiated dogs, 906
—, —, —, SKOOG, WILLIAM A., AND LAWRENCE, JOHN S. (With the technical assistance of Baker, Mary, Paul, Gloria, Figueroa, William G., and Davis, Frances.) Studies of leukopoiesis, 881
CROSBY, WILLIAM H. (*See* ADELSON, CROSBY, AND ROEDER), 441
CULBERTSON, CLYDE G. (*See* PECK, POWELL, AND CULBERTSON), 679
CULLERTON, E. M. (*See* STEWART, BOWEN, AND CULLERTON), 653

D

DAUGHADAY, WILLIAM H. (*See* LEVIN, DAUGHADAY, AND BREMER), 833
DAVIDSOHN, I., AND GOLDIN, M. The use of horse kidney in the differential test for infectious mononucleosis, 561
DAVIS, FRANCES. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881
DEISS, WILLIAM P., JR. (*See* MUSSER, DEISS, AND LORENZ), 357
DE NICOLA, PIETRO, ROSTI, PIETRO, AND ZANGAGLIA, ONORIO. Complement fixation test due to the interaction of specific antiplatelet serum and heterologous platelet antigen, 725
DENNIS, EVIE G. (*See* SCHROEDER, MENHARD, AND PERRY), 431
DERN, RAYMOND J. (*See* BEUTLER, DERN, AND ALVING), 40
—. (*See* BEUTLER, DERN, FLANAGAN, AND ALVING), 286
—, BEUTLER, ERNEST, AND ALVING, ALF S. The hemolytic effect of primaquine. V. Primaquine sensitivity as a manifestation of a multiple drug sensitivity, 30

DEVICK, RHODA. (*See* TAPLIN, MEREDITH, AND KADE), 665

DODGE, HAROLD T. (*See* NOBLE, BOONE, DODGE, AND BRODEUR), 489

DOHM, LILA. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

DOUBEK, WILLIAM G. (*See* STEINKAMP, MOORE, AND DOUBEK), 18

DOUGHERTY, THOMAS F. (*See* FRANK AND DOUGHERTY), 485, 876

DOWLING, HARRY F. (*See* LEPPER, JACKSON, AND DOWLING), 935

DOWNEY, HAL. The development of histiocytes and macrophages from lymphocytes, 499

DRUSCH, HELENE E. (*See* PETERSON, ASCH, AND BOAK), 778

DUBACH, REUBENIA, MOORE, CARL V., AND CALLENDER, SHEILA. Studies in iron transportation and metabolism. IX. The excretion of iron as measured by the isotope technique, 599

DUBIN, ALVIN. (*See* PASCALE, DUBIN, BRONSKY, AND HOFFMAN), 771

DUDLEY, H. C. Influence of chelates on the metabolism of radioyttrium (Y-90), 792

DYSON, JAMES E., JR., AND EVANS, E. EDWARD. Delayed hypersensitivity in experimental fungus infections, 449

E

EBERT, ROBERT H. (*See* KOCH-WESER AND EBERT), 711

EISENTRAUT, ANNA M. (*See* MCCALL, SUTHERLAND, EISENTRAUT, AND LANZ), 717

ELLIS, B. C. (*See* BOTHWELL, ELLIS, VAN DOORN-WITTKAMPF, AND ABRAHAMS), 167

EMMONS, CHESTER W., AND ROWLEY, DONALD A. Isolation of Histoplasma capsulatum from fresh and deep-frozen peribronchial lymph nodes of dogs by mouse inoculation, 303

EVANS, E. EDWARD. (*See* DYSON AND EVANS), 449

F

FALLER, INGA L., BOND, E. E., PETTY, DAVID, AND PASCALE, LUKE R. The use of urinary deuterium oxide concentrations in a simple method for measuring total body water, 759

—, PETTY, DAVID, LAST, JULES H., PASCALE, LUKE R., AND BOND, E. E. A comparison of the deuterium oxide and antipyrine dilution methods for measuring total body water in normal and hydropic human subjects, 748

FARR, ANDREW F. (*See* COLLIER, AFFELDT, AND FARR), 526

FARR, CHARLES H. (*See* PAYNE, SHETLAR, FARR, HELLBAUM, AND ISHMAEL), 331

FAVOUR, CUTTING B. (*See* SANFORD, FAVOUR, AND MAO), 540

FIGUEROA, WILLIAM G. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

FLANAGAN, C. LARKIN. (*See* BEUTLER, DERN, FLANAGAN, AND ALVING), 286

FORD, RALPH V. (*See* MOYER, MILLS, FORD, AND SPURR), 179

FRANK, HUGH A., AND CARR, MARIE H. (With the technical assistance of Huffman, Betty J., and Brosnahan, Mary Louise.) A simplified dye method for estimating plasma volume, 977

— and —. (With the technical assistance of Huffman, Betty J., and Brosnahan, Mary Louise.) A simplified method for estimation of the extracellular fluid space, 973

FRANK, JULES A., AND DOUGHERTY, THOMAS F. Effect of graded amounts of epinephrine on normal and stress lymphocytes of intact and adrenalectomized mice, 485

— and —. The lymphocyte response to various stressors, 876

FROMMEYER, WALTER B., JR. (*See* MATTHEWS AND FROMMEYER), 508

FRYER, JEFFREY H., MOORE, NORMAN S., WILLIAMS, HAROLD H., AND YOUNG, CHARLOTTE M. A study of the interrelationship of the energy-yielding nutrients, blood glucose levels, and subjective appetite in man, 684

G

GAN, K. H. (With the technical assistance of Bie, Tjioe Swie, and Atmadaja, R. Soekardi.) An "anti-infection cannula" for syringes to prevent transmission of infections in mass immunization campaigns, 141

GARB, SOLOMON, SCRIABINE, ALEXANDER, ROY, B. B., VENTURI, VITTORIO, AND PENNA, MARIO. (With the technical assistance of Wacker, Ann.) A protective effect of a carbon-free fraction of India ink against snake venom, 580

GELLER, PHILIP, MERRILL, ELIZABETH R., AND JAWETZ, ERNEST. Experimental studies on bacterial contamination of bank blood. II. Observations on bacteremia in mice and the influence of antibiotics in preventing death, 943

GENDELMAN, ESTHER. (*See* ROSENTHAL, ROBERT L.), 123

GENEST, JACQUES. (*See* NOWACZYNSKI, GOLDNER, AND GENEST), 818

GEYER, ROBERT P. (*See* WADDELL, GEYER, OLSEN, ANDRUS, AND STARE), 697

GLEASON, G. I. (*See* LAHR, OLSEN, GLEASON, AND TABERN), 66

GOLDIN, M. (*See* DAVIDSOHN AND GOLDIN), 561

GOLDNER, MOE. (*See* NOWACZYNSKI, GOLDNER, AND GENEST), 818

GOLDSTEIN, GAY. (*See* PERRY AND GOLDSTEIN), 963

GORDON, DOUGLAS. (*See* SEGALOFF, GORDON, AND HORWITT), 219

GREEN, P. G. (*See* WILHELMJ, GUNDERSON, SHUPUT, AND MCCARTHY), 516

GREEN, ROSALIE, AND MARTIN, SAMUEL P. The nonprotein soluble sulfhydryl content of human leukocytes and erythrocytes in infection and leukemia, 119

GREENWALT, TIBOR J., AND TRIANTAPHYLLOPOULOS, DEMETRIOS C. (With the technical assistance of Moorman, Mavis.) In vitro studies of red cell fragility in anti-D hemolytic disease of the newborn, 135

GROGAN, CHARLES H., AND ROBOZ, ELIZABETH. Simple apparatus for concentrating biologic fluids of low protein content, 495

GROSSMAN, MORTON I. (*See* BECKER, RALL, AND GROSSMAN), 786

GROVE, G. RICHARD. (*See* ZIPF, WEBBER, AND GROVE), 648, 800

GRUNDORFER, JOSEPH. Studies on isosensitization to the Kell factor, 554

GUNBERG, DAVID L., LYONS, WILLIAM R., AND JOHNSON, RUTH E. Perfusion studies of the isolated young rat liver, 130

GUNDERSON, D. E. (*See* WILHELMJ, GUNDERSON, SHUPUT, AND MCCARTHY), 516

GURGIOLO, ARTHUR E. (*See* MORELAND AND GURGIOLO), 352

GYLFE, JULINA. (*See* BOGER, STRICKLAND, BAYNE, AND GYLFE), 478

H

HALL, WENDELL H., AND LATTS, ELLIOT M. Pentaquine and quinine in the treatment of Korean vivax malaria, 573

HAMILTON, DAVID L. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

HAMRICK, LADD W., JR., AND MYERS, J. D. The effect of subfebrile doses of bacterial pyrogens on splanchnic metabolism and cardiac output, 568

HASLAM, RUTH M. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

HEIN, DAVID E. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

HELLBAUM, ARTHUR A. (*See* PAYNE, SHETLAR, FARR, HELLBAUM, AND ISHMAEL), 331

HENSLEY, THOMAS. (*See* PETERSON, ASCH, AND BOAK), 778

HERSHMAN, JEROME. (*See* ARMSTRONG, KUKRAL, HERSHMAN, MCLEOD, WOLTER, AND BRONSKY), 51

HILL, JOSEPH M. (*See* SPEER, HILL, MALONEY, AND ROBERTS), 730

—, SPEER, ROBERT J., ROBERTS, AMMARETTE, AND MALONEY, MARGARET. Hypoprothrombinemia and hypoproconvertinemia during pregnancy, 308

HOENEN, W. (*See* CAMPOS, PONTES, HOENEN, AND KUSMINSKI), 455

HOFFMAN, WILLIAM S. (*See* PASCALE, DUBIN, BRONSKY, AND HOFFMAN), 771

HOLADAY, DUNCAN A., AND VEROSKY, MARIAGNES. The manometric analysis of respiratory gases in blood containing volatile anesthetic agents. I. A comparison of macromethods, 149

HOLLINGSWORTH, JAMES W. Erythrocyte glycolysis in hemolytic disease, 920

—. Lifespan of fetal erythrocytes, 469

HORNER, WILLIAM H. (With the technical assistance of Lawson, Natalie L., and Trachtenberg, Norman S.) The determination of calcium in biologic material, 951

HORWITT, BENJAMIN N. (*See* SEGALOFF, GORDON, AND HORWITT), 219

HOWELL, JAMES T. (*See* MONTO AND HOWELL), 474

HUFFMAN, BETTY J. (*See* FRANK AND CARR), 973, 977

HUISMAN, T. H. J. (*See* MANDEMA, VAN DER SCHAAF, AND HUISMAN), 261

HUMOLLER, FRED L. (*See* WALSH, HUMOLLER, AND ZIMMERMAN), 253

HYATT, ROBERT E., LAWRENCE, GEORGE H., AND SMITH, JOHN R. Observations on the origin of ascites from experimental hepatic congestion, 274

I

ILIYA, A. A. (*See* BROWN, ILIYA, PRICE, AND RAMBO), 102

INKLEY, SCOTT R., BROOKS, LAURA, AND KRIEGER, HARVEY. A study of methods for the prediction of plasma volume, 841

ISHMAEL, WILLIAM K. (*See* PAYNE, SHETLAR, FARR, HELLBAUM, AND ISHMAEL), 331

J

JACKSON, GEORGE G. (*See* LEPPER, JACKSON, AND DOWLING), 935

JAMRA, MICHEL. (*See* MASPES AND JAMRA), 641

JAWETZ, ERNEST. (*See* GELLER, MERRILL, AND JAWETZ), 943

JOHNSON, RUTH E. (*See* GUNBERG, LYONS, AND JOHNSON), 130

JOHNSTON, LOUIS C., AND BERNSTEIN, LIONEL M. Body composition and oxygen consumption of overweight, normal, and underweight women, 109

JONES, D. C. (*See* CASTANERA, KIMELDORF, AND JONES), 825

K

KADE, HAROLD. (*See* TAPLIN, MEREDITH, AND KADE), 665

KAINE, HENRY D., SELTZER, HOLBROOKE S., AND CONN, JEROME W. Mechanism of diurnal eosinophil rhythm in man, 247

KAYE, MICHAEL. (*See* SEHON, KAYE, MCGARRY, AND ROSE), 765

KIMELDORF, D. J. (*See* CASTANERA, KIMELDORF, AND JONES), 825

KIPNIS, DAVID M., AND SACKS, MILTON S. Observations on an agglutinin in human serum for periodate-treated erythrocytes, 632

KNOWLES, HARVEY C., JR., ALVERSON, GABRIELE, AND RUBENSTEIN, EDWARD. The erythrocyte potassium concentration in conditions of hyponatremia and hypernatremia, 463

KOCH-WESER, DIETER, AND EBERT, ROBERT H. The use of differential C_{14} labeling for the investigation of the in vitro antituberculous activity of isonicotinyl hydrazide of glucuronolactone, 711

KORST, DONALD R. (*See* SCHILLING, CLATANOFF, AND KORST), 926

KRIEGER, HARVEY. (*See* INKLEY, BROOKS, AND KRIEGER), 841

KUKRAL, JOHN. (*See* ARMSTRONG, KUKRAL, HERSHMAN, MCLEOD, WOLTER, AND BRONSKY), 51

KUNKEL, H. G. (*See* BEARN AND KUNKEL), 623

KUSMINSKI, N. (*See* CAMPOS, PONTES, HOENEN, AND KUSMINSKI), 455

L

LABAW, ELEANORE. (*See* WILSON AND PITNEY), 590

LAHR, T. N., OLSEN, ROBERT, GLEASON, G. I., AND TABERN, D. L. Animal distribution of colloids of Au^{198}, P^{32}, and Y^{90}: an improved method of tissue assay for radioactivity, 66

LANGEVIN, LISE. (*See* NOWACZYNSKI, GOLDNER, AND GENEST), 818

LANZ, HENRY. (*See* MCCALL, SUTHERLAND, EISENTRAUT, AND LANZ), 717

LAST, JULES H. (*See* FALLER, PETTY, LAST, PASCALE, AND BOND), 748

LATNER, A. L. Correction of paper-strip serum electrophoresis diagrams, 147

LATTS, ELLIOT M. (*See* HALL AND LATTS), 573

LAWRENCE, GEORGE H. (*See* HYATT, LAWRENCE, AND SMITH), 274

LAWRENCE, JOHN S. (*See* CRADDOCK, ADAMS, PERRY, AND LAWRENCE), 906

—. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

LAWSON, NATALIE L. (*See* HORNER, WILLIAM H.), 951

LAYNE, ENNIS C., JR., (*See* BESSMAN AND LAYNE), 159

LEE, JOHANNA M. (*See* OLITSKY AND LEE), 81

LEPPER, MARK H., JACKSON, GEORGE G., AND DOWLING, HARRY F. Characteristics of the micrococcal nasal carrier state among hospital personnel, 935

LEUCHTENBERGER, CECILIE, WEIR, DAVID R., SCHRADER, FRANZ, AND MURMANIS, LYDIA. The desoxyribose nucleic acid (DNA) content in spermatozoa of repeated seminal fluids from fertile and infertile men, 851

LEVI, J. ELLIOT, AND SILBERSTEIN, HANNAH E. Lack of effect of fluorine ingestion on uptake of iodine^{131} by the thyroid gland, 348

LEVIN, MARVIN E., DAUGHADAY, WILLIAM H., AND BREMER, RITA. Tissue binding of hydrocortisone, 833

LONG, MARTHA. (*See* LABAW AND LONG), 590

LORENZ, THOMAS H. (*See* MUSSER, DEISS, AND LORENZ), 357

LYONS, WILLIAM R. (*See* GUNBERG, LYONS, AND JOHNSON), 130

M

MCAULEY, CLYDE B., JR. (*See* WALD AND MCAULEY), 583

MCCALL, MARY SUE, SUTHERLAND, DONALD A., EISENTRAUT, ANNA M., AND LANZ, HENRY. The tagging of leukemic leukocytes with radioactive chromium and measurement of the in vivo cell survival, 717

MCCARTHY, H. H. (*See* WILHELMJ, GUNDERSON, SHUPUT, AND MCCARTHY), 516

MCCOLLUM, E. V. (*See* RIDER AND MCCOLLUM), 215

MCGARRY, ELEANOR. (*See* SEHON, KAYE, MCGARRY, AND ROSE), 765

MCLEOD, KATHARINE. (*See* ARMSTRONG, KUKRAL, HERSHMAN, MCLEOD, WOLTER, AND BRONSKY), 51

MAHER, JOHN R., AND PUCKETT, ROBERT F. Identification of barbiturates by ultraviolet absorption, 806

MALONEY, MARGARET. (*See* HILL, SPEER, ROBERTS, AND MALONEY), 308

—. (*See* SPEER, HILL, MALONEY, AND ROBERTS), 730

MANDEMA, E., VAN DER SCHAAF, P. C., AND HUISMAN, T. H. J. Investigations on the amino acid composition of a macroglobulin and a cryoglobulin, 261

MAO, FRANCES H. (*See* SANFORD, FAVOUR, AND MAO), 540

MARCOUX, PIERRETTE. (*See* NOWACZYNSKI, GOLDNER, AND GENEST), 818

MARTIN, SAMUEL P. (*See* GREEN AND MARTIN), 119

MASPES VICTORIO, AND JAMRA, MICHEL. Direct method for platelet counting, with a study of its accuracy, 641

MATTHEWS, W. FRANK, AND FROMMEYER, WALTER B., JR. The in vitro behavior of erythrocytes in human cerebrospinal fluid, 508

MENHARD, EDNA M. (*See* SCHROEDER, MENHARD, AND PERRY), 431

MEREDITH, ORSELL M., JR. (*See* TAPLIN, MEREDITH, AND KADE), 665

MERRILL, ELIZABETH R. (*See* GELLER, MERRILL, AND JAWETZ), 943

MILLER, JAMES N. (*See* PETERSON, ASCH, AND BOAK), 778

MILLS, LEWIS C. (*See* MOYER, MILLS, FORD, AND SPURR), 179

MINDRUM, GORDON M. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

MONTO, RAYMOND W., AND HOWELL, JAMES T. Urinary vitamin B_{12} activity following intranasal administration, 474

MOORE, CARL V. (*See* DUBACH, MOORE, AND CALLENDER), 599

—. (*See* STEINKAMP, MOORE, AND DOUBEK), 18

MOORE, MARIA M. (*See* MUSSER, DEISS, AND LORENZ), 357

MOORE, NORMAN S. (*See* FRYER, MOORE, WILLIAMS, AND YOUNG), 684

MOORMAN, MAVIS. (*See* GREENWALT AND TRIANTAPHYLLOPOULOS), 135

MORELAND, FERRIN B., AND GURGIOLO, ARTHUR E. The use of the urinary pigment: creatinine ratio as a measure of basal metabolic rate and thyroid activity, 352

MOYER, JOHN H., MILLS, LEWIS C., FORD, RALPH V., AND SPURR, CHARLES. (With the technical assistance of Smith, C. P., and Weller, G. M.) The effect of a head-up tilted position and ambulation on renal hemodynamics and water and electrolyte excretion in patients with hypertension, with and without renal damage, 179

MURMANIS, LYDIA. (*See* LEUCHTENBERGER, WEIR, SCHRADER, AND MURMANIS), 851

MUSSER, MARC J., DEISS, WILLIAM P., JR., AND LORENZ, THOMAS H. (With the technical assistance of Moore, Maria M.) Glycine and synthesis of para-aminohippuric acid in "free anxiety" and hyperthyroidism, 357

MYERS, J. D. (*See* HAMRICK AND MYERS), 568

N

NOBLE, FRANK W., BOONE, BERT R., DODGE, HAROLD T., AND BRODEUR, ARMAND E. A cardio-roentgen actuator: an instrument for actuating the roentgenoscope in end systole or end diastole of the heart action, 489

NOWACZYNSKI, WOJCIECH, GOLDNER, MOE, AND GENEST, JACQUES. (With the technical assistance of Marcoux, Pierrette, and Langevin, Lise). Microdetermination of corticosteroids with tetrazolium derivatives, 818

O

OLITSKY, PETER K., AND LEE, JOHANNA M. (With the technical assistance of Skadorwa, Sophie L.) The immunologic response of mice from stocks resistant and susceptible to acute disseminated encephalomyelitis, 81

OLSEN, F. RUSSELL. (*See* WADDELL, GEYER, OLSEN, ANDRUS, AND STARE), 697

OLSEN, ROBERT. (*See* LAHR, OLSEN, GLEASON, AND TABERN), 66

OPDYKE, D. F., ROSENBERG, A., SILBER, R., OTT, W. H., AND SIEGEL, H. Effect of chronic injection of a heparin complex on aortic atherosclerosis in cholesterol-fed chickens, 270

OSBORNE, WINIFRED. (*See* BUNN, ROBINSON, AND OSBORNE), 658

OTT, W. H. (*See* OPDYKE, ROSENBERG, SILBER, OTT, AND SIEGEL), 270

P

PASCALE, LUKE R. (*See* FALLER, BOND, PETTY, AND PASCALE), 759

—. (*See* FALLER, PETTY, LAST, PASCALE, AND BOND), 748

—, DUBIN, ALVIN, BRONSKY, DAVID, AND HOFFMAN, WILLIAM S. Inhibition of the uricosuric action of Benemid by salicylate, 771

PAUL, GLORIA. (*See* CRADDOCK, ADAMS, PERRY, AND LAWRENCE), 906

—. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

PAYNE, R. W., SHETLAR, M. R., FARR, CHARLES H., HELLBAUM, ARTHUR A., AND ISHMAEL, WILLIAM K. The value of phenylbutazone in the treatment of rheumatoid arthritis as determined by clinical response and by the serum protein-polysaccharide ratio (PR), 331

PECK, FRANKLIN B., JR., POWELL, HORACE M., AND CULBERTSON, CLYDE G. A new antirabies vaccine for human use, 679

PEEL, PATRICIA. (*See* TAPLIN, MEREDITH, AND KADE), 665

PEÑA, MARIO. (*See* GARB, SCRIABINE, ROY, VENTURI, AND PENNA), 580

PERRY, H. MITCHELL, JR. (*See* SCHROEDER, MENHARD, AND PERRY), 431

— AND GOLDSTEIN, GAY. Studies on primary amines. III. Limiting and optimum conditions for quantitative determination by the ninhydrin method, 963

PERRY, SEYMOUR. (*See* CRADDOCK, ADAMS, PERRY, AND LAWRENCE), 906

—. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

PETERSON, E. TAYLOR, ASCH, MARTIN, AND BOAK, RUTH A. (With the technical assistance of Hensley, Thomas, Miller, James N., and Drusch, Helene E.) A comparison of the Neurath and the treponemal immobilization tests and their correlation with routine serologic tests, 778

PETTY, DAVID. (*See* FALLER, BOND, PETTY, AND PASCALE), 759

—. (*See* FALLER, PETTY, LAST, PASCALE, AND BOND), 748

PITNEY, WILLIAM R. (*See* WILSON AND PITNEY), 590

PONTES, J. FERNANDES. (*See* CAMPOS, PONTES, HOENEN, AND KUSMINSKI), 455

POWELL, HORACE M. (*See* PECK, POWELL, AND CULBERTSON), 679

PRICE, P. B. (*See* BROWN, ILIYA, PRICE, AND RAMBO), 102

PUCKETT, ROBERT F. (*See* MAHER AND PUCKETT), 806

R

RALL, THEODORE W. (*See* BECKER, RALL, AND GROSSMAN), 786

RAMBO, O. N., JR. (*See* BROWN, ILIYA, PRICE, AND RAMBO), 102

RAY, C. T. (*See* BURCH, THREEFOOT, AND RAY), 371

—. (*See* THREEFOOT, BURCH, AND RAY), 313

—. (*See* THREEFOOT, RAY, AND BURCH), 395

—, THREEFOOT, S. A., AND BURCH, G. E. The excretion of radiorubidium, Rb^{86}, radiopotassium, K^{42}, and potassium, sodium, and chloride by man with and without congestive heart failure, 408

RIDER, AGATHA A., AND MCCOLLUM, E. V. The extraction of amino acid-containing substances from urine, 215

ROBBINS, EDWIN S., BAUM, GERALD L., AND SCHWARZ, JAN. Chromogenic acid-fast bacilli, 546

ROBERTS, AMMARETTE. (*See* HILL, SPEER, ROBERTS, AND MALONEY), 308

—. (*See* SPEER, HILL, MALONEY, AND ROBERTS), 730

ROBINSON, FRANCES. (*See* BUNN, ROBINSON, AND OSBORNE), 658

ROBOZ, ELIZABETH. (*See* GROGAN AND ROBOZ), 495

ROEDER, WILLIAM H. (*See* ADELSON, CROSBY, AND ROEDER), 441

ROGERS, WALTER F., JR., BURDICK, MARY P., AND BURNETT, GEORGE R. The effect of antibiotics on the excretion of phenolic compounds, 87

ROSE, BRAM. (*See* SEHON, KAYE, MCGARRY, AND ROSE), 765

ROSENBERG, A. (*See* OPDYKE, ROSENBERG, SILBER, OTT, AND SIEGEL), 270

ROSENTHAL, ROBERT L. (With the technical assistance of Gendelman, Esther.) Properties of plasma thromboplastin antecedent (PTA) in relation to blood coagulation, 123

ROSTI, PIETRO. (*See* DE NICOLA, ROSTI, AND ZANGAGLIA), 725

ROWLEY, DONALD A. (*See* EMMONS AND ROWLEY), 303

ROY, B. B. (*See* GARB, SCRIABINE, ROY, VENTURI, AND PENNA), 580

RUBENSTEIN, EDWARD. (*See* KNOWLES, ALVERSON, AND RUBENSTEIN), 363

S

SACKS, MILTON S. (*See* KIPNIS AND SACKS), 632

SALGADO, ERNESTO. Influence of hypophysectomy upon the established hypertensive disease induced by desoxycorticosterone, 865

—, AND SELYE, HANS. Hormonal factors in the production of experimental renal and cardiovascular disease, 237

SANFORD, JAY P., FAVOUR, CUTTING B., AND MAO, FRANCES H. The emergence of antibiotic-resistant gram-negative bacilli, 540

SCHEDL, HAROLD P., BEAN, WILLIAM B., STEVENSON, B. M., AND SCHUMACHER, E. R. Correction for color differences between standards and urine extracts and their ketonic fractions in the Callow-Zimmermann reaction, 191

SCHIFF, LEON. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

SCHILLING, ROBERT F., CLATANOFF, DALLAS V., AND KORST, DONALD R. Intrinsic factor studies. III. Further observations utilizing the urinary radioactivity test in subjects with achlorhydria, pernicious anemia, or a total gastrectomy, 926

SCHRADER, FRANZ. (*See* LEUCHTENBERGER, WEIR, SCHRADER, AND MURMANIS), 851

SCHROEDER, HENRY A., MENHARD, EDNA M., AND PERRY, H. MITCHELL, JR. (With the technical assistance of Dennis, Evie G.) The antihypertensive properties of some mercaptans and other sulfur-containing compounds, 431

SCHULTZ, ALVIN L. (*See* ZIEVE, SKANSE, AND SCHULTZ), 281

SCHUMACHER, E. R. (*See* SCHEDL, BEAN, STEVENSON, AND SCHUMACHER), 191

SCHWARTZ, ERNEST. The effect of thyroid hormone upon the degradation rate and miscible pool of radioiodinated human serum albumin in myxedema, 340

SCHWARZ, JAN. (*See* ROBBINS, BAUM, AND SCHWARZ), 546

SCRIABINE, ALEXANDER. (*See* GARB, SCRIABINE, ROY, VENTURI, AND PENNA), 580

SEGALOFF, ALBERT, GORDON, DOUGLAS, AND HORWITT, BENJAMIN N. Differential diagnosis of adrenal lesions by the use of the intravenous administration of hydrocortisone, 219

SEHON, A. H., KAYE, MICHAEL, MCGARRY, ELEANOR, AND ROSE, BRAN. Localization of an insulin-neutralizing factor by zone electrophoresis in a serum of an insulin-resistant patient, 765

SELTZER, HOLBROOKE S. (*See* KAINE, SELTZER, AND CONN), 247

SELYE, HANS. (*See* SALGADO AND SELYE), 237

SEMPLE, ROBERT E. Changes in protein fractions of dog plasma after bleeding and dextran infusion, 61

SHAFFER, A. B. Observations on "isometric" contraction of the atria in the human subject, 228

SHETLAR, M. R. (*See* PAYNE, SHETLAR, FARR, HELLBAUM, AND ISHMAEL), 331

SHUPUT, DARINKA. (*See* WILHELMJ, GUNDERSON, SHUPUT, AND MCCARTHY), 516

SIEGEL, H. (*See* OPDYKE, ROSENBERG, SILBER, OTT, AND SIEGEL), 270

SILBER, R. (*See* OPDYKE, ROSENBERG, SILBER, OTT, AND SIEGEL), 270

SILBERSTEIN, HANNAH E. (*See* LEVI AND SILBERSTEIN), 348

SKADORWA, SOPHIE L. (*See* OLITSKY AND LEE), 81

SKANSE, BENGT. (*See* ZIEVE, SKANSE, AND SCHULTZ), 281

SKOOG, WILLIAM A. (*See* CRADDOCK, ADAMS, PERRY, SKOOG, AND LAWRENCE), 881

SMITH, C. P. (*See* MOYER, MILLS, FORD, AND SPURR), 179

SMITH, JOHN R. (*See* HYATT, LAWRENCE, AND SMITH), 274

SPEER, ROBERT J. (*See* HILL, SPEER, ROBERTS, AND MALONEY), 308

—, HILL, JOSEPH M., MALONEY, MARGARET, AND ROBERTS, AMMARETTE. Hemorrhagic diathesis associated with hyperheparinemia, 730

SPURR, CHARLES. (*See* MOYER, MILLS, FORD, AND SPURR), 179

STARE, FREDRICK J. (*See* WADDELL, GEYER, OLSEN, ANDRUS, AND STARE), 697

STARR, CHARLENE. (*See* BILLING, HASLAM, HEIN, CONLON, HAMILTON, MINDRUM, AND SCHIFF), 363

STEINKAMP, RUTH, MOORE, CARL V., AND DOUBEK, WILLIAM G. Thrombocytopenic purpura caused by hypersensitivity to quinine, 18

STEVENSON, B. M. (*See* SCHEDL, BEAN, STEVENSON, AND SCHUMACHER), 191

STEWART, G. S., BOWEN, H. F., AND CULLERTON, E. M. The direct microdetermination of calcium in the urine by nephelometry, 653

STRICKLAND, S. CLYDE. (*See* BOGER, STRICKLAND, BAYNE, AND GYLFE), 478

SUTHERLAND, DONALD A. (*See* MCCALL, SUTHERLAND, EISENTRAUT, AND LANZ), 717

SUTTERER, WILLIAM. (*See* WOOD AND SUTTERER), 153

T

TABERN, D. L. (*See* LAHR, OLSEN, GLEASON, AND TABERN), 66

TAPLIN, GEORGE V., MEREDITH, ORSELL M., JR., AND KADE, HAROLD. (With the technical assistance of Peel, Patricia, and Devick, Rhoda.) The radioactive (I^{131}-tagged) rose bengal uptake-excretion test for liver function using external gamma-ray scintillation counting techniques, 665

THREEFOOT, S. A. (*See* BURCH, THREEFOOT, AND RAY), 371

—. (*See* RAY, THREEFOOT, AND BURCH), 408

—, BURCH, G. E., AND RAY, C. T. The biologic decay rates and excretion of radiocesium, Cs^{134}, with evaluation as a tracer of potassium in dogs, 313

—, RAY, C. T., AND BURCH, G. E. Study of the use of Rb^{86} as a tracer for the measurement of Rb^{86} and K^{39} space and mass in intact man with and without congestive heart failure, 395

THIBEAULT, CAROL E. (*See* ADELSON, CROSBY, AND ROEDER), 441

TRACHTENBERG, NORMAN S. (*See* HORNER, WILLIAM H.), 951

TRIANTAPHYLLOPOULOS, DEMETRIOS C. (*See* GREENWALT AND TRIANTAPHYLLOPOULOS), 135

TRYCZYNSKI, EMIL. (*See* WEXLER AND TRYCZYNSKI), 296

V

VAN DER SCHAAF, P. C. (*See* MANDEMA, VAN DER SCHAAF, AND HUISMAN), 261

VAN DER VEEN, J. A rapid and simple method for conducting large series of complement fixation tests and antistreptolysin "O" titrations, 323

VAN DOORN-WITTKAMPF, H. VAN W. (*See* BOTHWELL, ELLIS, VAN DOORN-WITTKAMPF, AND ABRAHAMS), 167

VENTURI, VITTORIO. (*See* GARB, SCRIABINE, ROY, VENTURI, AND PENNA), 580

VEROSKY, MARIAGNES. (*See* HOLADAY AND VEROSKY), 149

W

WACKER, ANN. (*See* GARB, SCRIABINE, ROY, VENTURI, AND PENNA), 580

WADDELL, WILLIAM R., GEYER, ROBERT P., OLSEN, F. RUSSELL, ANDRUS, STEPHEN B., AND STARE, FREDRICK J. Clinical experience with intravenous infusion of emulsified fat, 697

WALD, NIEL, AND MCAULEY, CLYDE B., JR. Dissociation of coagulation abnormalities in idiopathic thrombocytopenic purpura, 583

WALSH, JOHN R., HUMOLLER, FRED L., AND ZIMMERMAN, HYMAN J. Hepatic function in multiple myeloma, 253

WATSON, KENNETH C. In vitro activity of chloramphenicol on Salmonella typhi, 97

WEBBER, JOE M. (*See* ZIPF, WEBBER, AND GROVE), 648, 800

WEINSTEIN, IRWIN M., AND BEUTLER, ERNEST. The use of Cr^{51} and Fe^{59} in a combined procedure to study erythrocyte production and destruction in normal human subjects and in patients with hemolytic or aplastic anemia, 616

WEIR, DAVID R. (*See* LEUCHTENBERGER, WEIR, SCHRADER, AND MURMANIS), 851

WELLER, G. M. (*See* MOYER, MILLS, FORD, AND SPURR), 179

WEXLER, BERNARD C., AND TRYCZYNSKI, EMIL, Effect of a bacterial polysaccharide (Piromen) in preventing tissue loss in rabbits due to gangrene induced by frostbite, 296

WILHELMJ, C. M., GUNDERSON, D. E., SHUPUT, DARINKA, AND MCCARTHY, H. H. (With the technical assistance of Green, P. G.) A study of certain antagonistic actions of pituitary growth hormone and cortisone, 516

WILLIAMS, HAROLD H. (*See* FRYER, MOORE, WILLIAMS, AND YOUNG), 684

WILSON, HENRY E., AND PITNEY, WILLIAM R. (With the technical assistance of Labaw, Eleanore, and Long, Martha.) Serum concentrations of vitamin B_{12} in normal and nutritionally deficient monkeys, 590

WOLTER, JANET. (*See* ARMSTRONG, KUKRAL, HERSHMAN, MCLEOD, WOLTER, AND BRONSKY), 51

WOOD, EARL H., AND SUTTERER, WILLIAM. Improved resistance wire strain-gauge manometers adaptable for biologic measurements, 153

Y

YOUNG, CHARLOTTE M. (*See* FRYER, MOORE, WILLIAMS, AND YOUNG), 684

Z

ZANGAGLIA, ONORIO. (*See* DE NICOLA, ROSTI, AND ZANGAGLIA), 725

ZIEVE, LESLIE, SKANSE, BENGT, AND SCHULTZ, ALVIN L. Comparative value of the basal metabolic rate, chemical protein-bound iodine, and radioactive iodine excretion or uptake in the diagnosis of borderline hyperthyroidism when used individually or in combination, 281

ZIMMERMAN, HYMAN J. (*See* WALSH, HUMOLLER, AND ZIMMERMAN), 253

ZIPF, ROBERT E., WEBBER, JOE M., AND GROVE, G. RICHARD. A comparison of routine plasma volume determination methods using radioiodinated human serum albumin and Evans blue dye (T-1824), 800

—, —, and —. A gravimetric technique for the determination of plasma volumes with radioiodinated human serum albumin, 648

SUBJECT INDEX

A

Acetanilid, effect on red blood cells, 32
Acetanilid-induced anemia followed by primaquine sensitivity, 35
Achlorhydria, intrinsic factor studies in, utilizing urinary radioactivity test, 926
Acid-fast bacilli, chromogenic, bacteriologic and clinical study, 546
ACTH and cortisone, certain antagonistic actions of, 516
  intravenous administration, differential diagnosis of adrenal lesions by, 219
Activity in small animals, measurement of, apparatus for, 825
Acute disseminated encephalomyelitis, immunologic response of mice from stocks resistant and susceptible to, 81
  renal failure, effect on plasma volume and volume of packed red cells in dog, 102
Adrenal lesions, differential diagnosis by use of intravenous administration of hydrocortisone, 219
Agglutinin in human serum, observations on, for periodate-treated erythrocytes, 632
Albumin concentration of serum and its dye-binding capacity, relationship between, 740
  radioiodinated human serum, determination of plasma volumes with, gravimetric technique, 648
    in myxedema, effect of thyroid hormone upon degradation rate and miscible pool of, 340
Aldosteronism, primary, new clinical syndrome, 3
    progress report, 663
Alveolar CO_2 determination, fractional sampling and accuracy in, 526
Ambulation and head-up tilted position, effect on renal hemodynamics and water and electrolyte excretion in hypertension, with and without renal damage, 179
Amino acid composition of a microglobulin and a cryoglobulin, investigations on, 261
  acid-containing substances, extraction from urine, 215
Ammonium sulfate fractions, effect on plasma thromboplastin antecedent activity, 126
Anemia, acetanilid-induced, followed by primaquine sensitivity, 35
  hemolytic or aplastic, erythrocyte production and destruction in, use of Cr^{51} and Fe^{59} in combined procedure, 616
Anemia, hemolytic—Cont'd
  sulfanilamide-induced, followed by primaquine insensitivity, 35
Anesthesia-bronchospirometer valve, 493
Aniline derivatives, effects on primaquine-sensitive red blood cells, 32
Animal distribution of colloids of Au^{198}, P^{32}, and Y^{90}: improved method of tissue assay for radioactivity, 66
Animals, small, measurement of activity in, apparatus for, 825
Antibacterial drugs, effectiveness upon gram-negative intestinal flora, 455
Antibiotic therapy, effects on bacteremia and mortality, 947
Antibiotic-resistant gram-negative bacilli, emergence of, 540
Antibiotics, effect on excretion of phenolic compounds, 87
    on gram-negative intestinal flora, 456
  shifting bacterial sensitivity to, 541
Anti-D hemolytic disease of newborn, in vitro studies of red cell fragility in, 135
Antigens from yeast phase of Hisoplasma capsulatum, skin reactivity of, 449
Antihistaminics in reducing reactions to infusions of emulsified fat, 706
Antihypertensive properties of some mercaptans and other sulfur-containing compounds, 431
"Anti-infection cannula" for syringes to prevent transmission of infections in mass immunization campaigns, 141
Antiplatelet serum, specific, and heterologous platelet antigen, interaction of, complement fixation test due to, 725
Antipyrine body water weight compared with plasma volume Evans blue, 846
  dilution and deuterium oxide methods for measuring total body water in normal and hydropic human subjects, comparison of, 748
Antirabies vaccine for human use, new, 679
Antistreptolysin "O" titrations and complement fixation tests, large series of, rapid and simple method for, 323
Antituberculous activity of isonicotinyl hydrazide of glucuronolatone, in vitro, use of differential C^{14} labeling for investigation of, 711
Anuria, acute, in dogs, effect on plasma volume and volume of packed red cells, 102
Aortic atherosclerosis in cholesterol-fed chickens, effect of chronic injection of heparin-complex on, 270
Aplastic anemia, erythrocyte production and destruction in, use of Cr^{51} and Fe^{59} in combined procedure, 616

Apparatus for concentrating biologic fluids of low protein content, 495
for measuring activity in small animals, 825
Appetite, subjective, energy-yielding nutrients, and blood glucose levels in man, study of interrelationship of, 684
Arthritis, rheumatoid, value of phenylbutazone in treatment of, as determined by clinical response and by protein-polysaccharide ratio, 331
Ascites from experimental hepatic congestion, observations on origin of, 274
Ascorbic acid, in vitro Heinz body formation in erythrocytes by, 48
Aspirin, effect on serum-lowering effect of Benemid, 773
Atria, "isometric" contraction of, in the human subject, observations on, 228
Aureomycin, effect on excretion of phenolic compounds, 87
on gram-negative intestinal flora, 456

B

Bacilli, antibiotic-resistant gram-negative, emergence of, 540
chromogenic acid-fast, bacteriologic and clinical study, 546
tubercle, rapid cultivation of, chick embryo as medium for, 658
Background, painting, Central Society for Clinical Research, 3
Bacterial contamination of bank blood, experimental studies; II. observations on bacteremia in mice and influence of antibiotics in preventing death, 943
polysaccharide, effect in preventing tissue loss in rabbits due to gangrene induced by frostbite, 296
pyrogens, subfebrile doses of, effect on splanchnic metabolism and cardiac output, 568
Bank blood, bacterial contamination of, experimental studies; II. observations on bacteremia in mice and influence of antibiotics in preventing death, 943
Barbiturates, identification of, by ultraviolet absorption, 806
Basal metabolic rate and thyroid activity, creatinine ratio of urinary pigment as measure of, 352
chemical protein-bound iodine, and radioactive iodine excretion or uptake, comparative value of, in diagnosis of borderline hyperthyroidism when used individually or in combination, 281
Beer's law, behavior of urine extract blanks and nonketonic chromogens with respect to, 200
Benemid, excretion of, 478
uricosuric action of, inhibition of, by salicylate, 771
Benzenesulfonic acid in extraction of amino acids from urine, 215
Biologic fluids of low protein content, simple apparatus for concentrating, 495
material, calcium in, determination of, 951
measurements, improved resistance wire strain-gauge manometers adaptable for, 153
Bleeding, changes in protein fractions of dog plasma after, 51
Blood, bank, bacterial contamination of, experimental studies on; II. observations on bacteremia in mice and influence of antibiotics in preventing death, 943
cells, red, primaquine-sensitive, effects of eight aniline derivatives on, 32
coagulation, properties of plasma thromboplastin antecedent in relation to, 123
containing volatile anesthetic agents, respiratory gases in, manometric analysis of, 149
effect of repeated phlebotomies on plasma iron turnover in, 169
glucose levels, energy-yielding nutrients, and subjective appetite in man, study of interrelationship of, 684
response to isocaloric reducing diets, 687
lead in, rapid procedure for determination of, in presence of organic chelating agents, 159
persistence in, of radioactive label of albumins, gamma globulins and globulins of intermediate mobility; II. comparison of gamma globulins labeled with S^{35} and I^{131} in same subjects, 51
plasma, rate of disappearance of Rb^{86} from, biologic decay rates of Rb^{86}, and applicability of Rb^{86} as tracer of potassium in man with and without congestive heart failure, 371
pressure and heart rate, effects of STH and cortisone on, 517
Body composition and oxygen consumption of overweight, normal, and underweight women, 109
water, total, deuterium oxide and antipyrine dilution methods for measuring, comparison of, in normal and hydropic human subjects, 748
simple method for measuring, using urinary deuterium oxide concentrations, 759
weight compared with plasma volume Evans blue, 845
Bromsulphalein extraction technique in study of splanchnic metabolism, 568
Butazolidin in treatment of rheumatoid arthritis, value of, as determined by clinical response and by serum protein-polysaccharide ratio, 331

C

C^{14}-labeled soybean oil emulsion intravenously administered in rats, effect of heparin on distribution of, 786

Calcium in biologic material, determination of, 951

in urine, direct microdetermination of, by nephelometry, 653

Calculation of proteins separated by paper electrophoresis, graphic method for conversion of transmission curves to corrected density curve for, 958

Calibrator, Warburg, simple, 822

Callow-Zimmermann reaction, correction for color differences between standards and urine extracts and their ketonic fractions in, 191

Capillary resistance, effect of STH and cortisone on, 517

Carbohydrate, fat, and protein in reducing experiment, 684

Carbon tetrachloride and chloroform, liver poisoning from, sensitivity of radioactive rose bengal test for detecting, 670

Carbon-free fraction of India ink, protective effect of, against snake venom, 580

Cardiac output, effect of subfebrile doses of bacterial pyrogens on, 568

Cardio-roentgen actuator: instrument for actuating roentgenoscope in end systole or end diastole of heart action, 489

Cardiovascular disease, experimental, hormonal factors in production of, 237

Central Society for Clinical Research, presidential address, 27th annual meeting, Oct. 29, 1954, 3

Cerebrospinal fluid, erythrocytes in human, in vitro behavior of, 508

Chelates, influence of, on metabolism of radioyttrium (Y-90), 792

Chick embryo as medium for rapid cultivation of tubercle bacilli, 658

Chickens, cholesterol-fed, aortic atherosclerosis in, effect of chronic injection of heparin complex on, 270

Chloramphenicol, effect on excretion of phenolic compounds, 87

in vitro activity of, on Salmonella typhi, 97

Chloroform and carbon tetrachloride, liver poisoning from, sensitivity of radioactive rose bengal test for detecting, 670

Chloromycetin, effect of, on gram-negative intestinal flora, 456

Chlortetracycline and bacterial sensitivity, 541

Cholesterol-fed chickens, aortic atherosclerosis in, effect of chronic injection of heparin complex on, 270

Chromogenic acid-fast bacilli, bacteriologic and clinical study, 546

Cirrhosis of liver, serum and liver lipids in, 368

Clinical syndrome, primary aldosteronism, 3

Coagulation abnormalities in idiopathic thrombocytopenic purpura, dissociation of, 583

Cohn fractions, plasma thromboplastin antecedent activity in, 126

Cold and periodate agglutinin, relationship of, 634

Collagen vascular disease, periodate agglutinin titers in, 637

Colloids of Au^{198}, P^{32}, and Y^{90}, animal distribution of; improved method of tissue assay for radioactivity, 66

Color differences between standards and urine extracts and their ketonic fractions in Callow-Zimmermann reaction, correction for, 191

Complement fixation test due to interaction of specific antiplatelet serum and heterologous platelet antigen, 725

tests and antistreptolysin "O" titrations, large series of, rapid and simple method for, 323

Concentrating biologic fluids of low protein content, simple apparatus for, 495

Congestive heart failure, excretion of radiorubidium, Rb^{86}, radiopotassium, K^{42}, and potassium, sodium, and chloride in man with and without, 408

Rb^{86} as tracer for measurement of Rb^{86} and K^{39} space and mass in intact man with and without, 395

as tracer of potassium in, 371

Coombs' antibody and periodate agglutinin, relation of, 635

Corticosteroids, microdetermination of, with tetrazolium derivatives, 818

Cortisone and pituitary growth hormone, certain antagonistic action of, 516

Cottonseed oil emulsions, intravenous infusion, clinical experience with, 702

Creatinine ratio, urinary pigment, as measure of basal metabolic rate and thyroid activity, 352

Cryoglobulin, amino acid composition of, investigations on, 261

Cs^{134}, biologic decay rates and excretion of, with evaluation as tracer of potassium in dogs, 313

D

DCA, hypertensive disease induced by, influence of hypophysectomy upon, 865

Delayed hypersensitivity in experimental fungus infections, 449

Density curve, corrected, for calculation of proteins separated by paper electrophoresis, graphic method for the conversion of transmission curves to, 958

Desoxycorticosterone, hypertensive disease induced by, influence of hypophysectomy upon, 865

Desoxyribose nucleic acid content in spermatozoa of repeated seminal fluids from fertile and infertile men, 851
Deuterium oxide and antipyrine dilution methods for measuring total body water in normal and hydropic human subjects, comparison of, 748
concentrations, urinary, use of, in simple method for measuring total body water, 759
Dextran infusion, changes in protein fractions of dog plasma after bleeding and, 51
intravenous, hemostatic defect caused by, further studies of, 441
Diasone, effect on red blood cells, 32
Diets, reducing, satiety value of, 687
Dihydrostreptomycin, effects of, on bacteremia, 945
Diurnal eosinophil rhythm in man, mechanism of, 247
Dl-camphorsulfonic acid in extraction of amino acids from urine, 215
DNA in spermatozoa of repeated seminal fluids from fertile and infertile men, 851
Dog plasma, protein fractions of, changes after bleeding and dextran infusion, 61
volume, and volume of packed red cells in, effect of acute renal failure on, 102
Dogs, normal and irradiated, dynamics of platelet production as studied by a depletion technique in, 906
peribronchial lymph nodes of, isolation of Histoplasma capsulatum from, by mouse inoculation, 303
potassium in, evaluation of radiocesium as tracer of, 313
Drug sensitivity, multiple, primaquine sensitivity as manifestation of, 30
Drugs, antibacterial, effectiveness of, upon gram-negative intestinal flora, 455
Drug-sensitive erythrocytes, biochemical studies of, 286
Dye method for estimating plasma volume, simplified, 977
"Dye-binding capacity" of albumin of pathologic serum, 740

E

Electrolyte excretion in hypertension, with and without renal damage, effect of head-up tilted position and ambulation on renal hemodynamics and, 179
Electrophoresis fractions, plasma thromboplastin antecedent activity in, 127
Emulsified fat, intravenous infusion of, clinical experience with, 697
Encephalomyelitis, acute disseminated, immunologic response of mice from stocks resistant and susceptible to, 81
Energy-yielding nutrients, blood glucose levels, and subjective appetite in man, study of interrelationship of, 684
Eosinophil rhythm, diurnal, in man, mechanism of, 247
Eosinophils, circulating, level of, effect of cortisone and STH on, 522
Epinephrine, effect of graded amounts of, on normal and stress lymphocytes of intact and adrenalectomized mice, 485
Erythrocyte glycolysis in hemolytic disease, 920
potassium concentration in conditions of hyponatremia and hypernatremia, 463
production and destruction in normal human subjects and in patients with hemolytic or aplastic anemia, use of Cr^{51} and Fe^{59} in combined procedure, 616
Erythrocytes and leukocytes, human, in infection and leukemia, nonprotein soluble sulfhydryl content of, 119
drug-sensitive, biochemical studies of, 286
fetal, lifespan of, 469
in human cerebrospinal fluid, in vitro behavior of, 508
periodate-treated, observations on agglutinin in human serum for, 632
primaquine-sensitive, biochemical studies of, 286
sensitivity to primaquine, in vitro test for, 40
Evans blue dye and radioiodinated human serum albumin, comparison of routine plasma volume determination methods using, 800
for estimating plasma volume, simplified method, 977
in determination of plasma volume, 841
Excretion of iron as measured by isotope technique, 599
Experimental fungus infections, delayed hypersensitivity in, 449
hepatic congestion, origin of ascites from, observations on, 274
hypertension, influence of hypophysectomy upon, 875
renal and cardiovascular disease, hormonal factors in production of, 237
studies on bacterial contamination of bank blood; II. observations on bacteremia in mice and influence of antibiotics in preventing death, 943
Extracellular fluid space, estimation of, simplified method for, 973

F

Fat, emulsified, intravenous infusion of, clinical experience with, 697
emulsion, C^{14} labeled soybean oil, intravenous, in rat, effect of heparin on distribution of, 786

Fecal excretion of phenols, effect of antibiotics on, 90
of radioactive copper in Wilson's disease, 626
flora, gram-negative, effectiveness of antibacterial drugs upon, 455
Feces, excretion of radioactive iron in, 601
Fertile men, seminal fluids from, desoxyribose nucleic acid content in spermatozoa of, 851
Fetal erythrocytes, lifespan of, 469
Fluorine ingestion, lack of effect of, on uptake of iodine by thyroid gland, 348
Folic acid therapy of megaloblastic anemia of pregnancy, erythrocyte glycolytic rate and reticulocyte counts during, 923
"Free anxiety" and hyperthyroidism, glycine and synthesis of para-aminohippuric acid in, 357
Fungus infections, experimental, delayed hypersensitivity in, 449

G

Gamma globulins labeled with S^{35} and I^{131} in blood, comparison in same subjects, 51
Gastrectomy, total, intrinsic factor studies in, utilizing urinary radioactivity test, 926
Girard procedure, effects on crude urine extracts, 197
Glycine and synthesis of para-aminohippuric acid in "free anxiety" and hyperthyroidism, 357
Gram-negative intestinal flora, effectiveness of antibacterial drugs upon, 455
Gravimetric technique for determination of plasma volumes with radioiodinated human serum albumin, 648

H

Hair clippings, appearance of tracer iron in, 610
Head-up tilted position and ambulation, effect on renal hemodynamics and water and electrolyte excretion in hypertension, with and without renal damage, 179
Heart action, instrument for actuating roentgenoscope in end systole or end diastole of, 489
failure, congestive, excretion of radiorubidium, Rb^{86}, radiopotassium, K^{42}, and potassium, sodium, and chloride by man with and without, 408
Rb^{86} as tracer for measurement of Rb^{86} and K^{39} space and mass in intact man with and without, 395
as tracer of potassium in, 371
rate, effect of STH and cortisone on, 517
Heinz body formation, in vitro, in erythrocytes, 40
Hemagglutinin, periodate, distribution of, in normal adult human serum, 633
Hematologic changes in normal dogs subjected to leukopheresis, 885
Hemochromatosis, radioiron studies in, effects of repeated phlebotomies on, 167
Hemolytic anemia, erythrocyte production and destruction in, use of Cr^{51} and Fe^{59} in combined procedure, 616
crisis induced in dogs by phenylhydrazine, excretion of radioactive iron in, 606
disease, erythrocyte glycolysis in, 920
of newborn, anti-D, in vitro studies of red cell fragility in, 135
effect of primaquine; V. primaquine sensitivity as manifestation of multiple drug sensitivity, 30
VI. in vitro test for sensitivity of erythrocytes to primaquine, 40
VII. biochemical studies on drug-sensitive erythrocytes, 286
Hemorrhagic diathesis associated with hyperheparinemia, 730
Hemostatic defect caused by intravenous dextran, further studies on, 441
Heparin complex, effect of chronic injection of, on aortic atherosclerosis in cholesterol-fed chickens, 270
effect on distribution of intravenously administered C^{14}-labeled soybean oil emulsion in rats, 786
Hepatic cirrhosis, serum and liver lipids in, 365
congestion, experimental, origin of ascites from, observations on, 274
disorders, serum and liver lipids in, 366
function in multiple myeloma, 253
Hepatitis, serum and liver lipids in, 365
Hereditary spherocytosis, erythrocyte glycolytic rate and reticulocyte counts following splenectomy in, 923
Histamine, intravenous, in adrenalectomized mice, lymphocyte counts following, 879
Histiocytes and macrophages, development from lymphocytes, 499
Histoplasma capsulatum, isolation from fresh and deep-frozen peribronchial lymph nodes of dogs by mouse inoculation, 303
yeast phase of, skin reactivity of antigens from, 449
Hormonal factors in production of experimental renal and cardiovascular disease, 237
Horse kidney in differential test for infectious mononucleosis, 561
Hydoxylamine, in vitro Heinz body formation in erythrocytes by, 48
Hydrocortisone, intravenous, differential diagnosis of adrenal lesions by, 219
tissue binding of, 833
Hydroxy acetanilid, effect on red blood cells, 32
Hyperheparinemia, hemorrhagic diathesis associated with, 730

Hypersensitivity, delayed, in experimental fungus infections, 449
to quinine, thrombocytopenic purpura caused by, 18
Hypertension, effect of a head-up tilted position and ambulation on renal hemodynamics and water and electrolyte excretion in, with and without renal damage, 179
Hypertensive disease induced by desoxycorticosterone, influence of hypophysectomy upon, 865
Hyperthyroidism, diagnosis of borderline, comparative value of basal metabolic rate, chemical protein-bound iodine, and radioactive iodine excretion or uptake in, when used individually or in combination, 281
"free anxiety" and, glycine and synthesis of para-aminohippuric acid in, 357
Hyponatremia and hypernatremia, erythrocyte potassium concentration in conditions of, 463
Hypophysectomy, influence upon established hypertensive disease induced by desoxycorticosterone, 865
Hypoprothrombinemia and hypoproconvertinemia during pregnancy, 308
Hypothalamus, appetite center, 684

I

Idiopathic thrombocytopenic purpura, dissociation of coagulation abnormalities in, 583
Immunization, infection in mass campaigns, "anti-infection cannula" for syringes to prevent transmission of, 141
Immunologic response of mice from stocks resistant and susceptible to acute disseminated encephalomyelitis, 81
In vitro activity of chloramphenicol on Salmonella typhi, 97
antituberculous activity of isonicotinyl hydrazide of glucuronolactone, use of differential C^{14} labeling for investigation of, 711
behavior of erythrocytes in human cerebrospinal fluid, 508
studies of red cell fragility in anti-D hemolytic disease of newborn, 135
test for sensitivity of erythrocytes to primaquine, 40
India ink, carbon-free fraction of, protective effect of, against snake venom, 580
Infection, leukocytes and erythrocytes in, nonprotein soluble sulfhydryl content of, 119
transmission of, in mass immunization campaigns, "anti-infection cannula" for syringes to prevent, 141
Infections, fungus, experimental, delayed hypersensitivity in, 449
Infectious mononucleosis, horse kidney in differential test for, 561
Infertile men, seminal fluids from, desoxyribose nucleic acid content in spermatozoa of, 851
Infrared CO_2 analysis, continuous rapid, 526
INH-G, in vitro antituberculous activity of, use of differential C^{14} labeling for investigation of, 711
Insulin-neutralizing factor, localization of, by zone electrophoresis in serum of insulin-resistant patient, 765
Intestinal flora, gram-negative, effectiveness of antibacterial drugs upon, 455
Intravenous dextran, hemostatic defect caused by, further studies on, 441
infusion of emulsified fat, clinical experience with, 697
Intrinsic factor studies; III. further observations utilizing urinary radioactivity test in subjects with achlorhydria, pernicious anemia, or total gastrectomy, 926
Iodinated albumin compared with plasma volume Evans blue, 843
Iodine, radioactive, rose bengal uptake-excretion test for liver function using external gamma-ray scintillation counting techniques, 665
uptake of, by thyroid gland, lack of effect of fluorine ingestion on, 348
Iron, excretion of, as measured by isotope technique, 599
transportation and metabolism, studies in; IX. excretion of iron as measured by isotope technique, 599
Irradiated dogs, dynamics of platelet production as studied by depletion technique in, 906
hematologic changes in, after leukopheresis, 892
Irradiation, whole body, lymphocyte counts following, 877
"Isometric" contraction of atria in human subject, observations on, 228
Isonicotinyl hydrazide of glucuronolactone, in vitro antituberculous activity of, use of differential C^{14} labeling for investigation of, 711
Isosensitization to Kell factor, studies on, 554
Isotope technique of iron excretion, 599

K

Kell factor, isosensitization to, studies on, 554
Korean vivax malaria, pentaquine and quinine in treatment of, 573

L

Laboratory methods, 141, 323, 489, 641, 806, 951
Lead in blood and urine, rapid procedure for determination of, in presence of organic chelating agents, 159
Letter from past editors, 1

Leukemia, leukocytes and erythrocytes in, nonprotein soluble sulfhydryl content in, 119
Leukemic leukocytes, tagging with radioactive chromium and measurement of in vivo cell survival, 717
Leukocyte production, experimental study, 881
Leukocytes and erythrocytes in infection and leukemia, nonprotein soluble sulfhydral content of human, 119
leukemic, tagging with radioactive chromium and measurement of in vivo cell survival, 717
lifespan of, published values for, 722
Leukopenia, rate of return of leukocytes in peripheral blood of normal animals after, 889
Leukopheresis, effect on blood platelet levels, 908
Leukopoiesis, studies of, 881
Lifespan of fetal erythrocytes, 469
of leukocytes, published values for, 722
Liver disease, serum and liver lipids in patients with and without, 363
function, radioactive rose bengal uptake-excretion test for, using external gamma-ray scintillation counting techniques, 665
lipids and serum in patients with and without liver disease, 363
perfusion studies of isolated young rat, 130
poisoning from carbon tetrachloride and chloroform, sensitivity of radioactive rose bengal test for detecting, 670
Long-Lyons plastic perfusion apparatus for studies on isolated young rat liver, 130
Lymphocyte response to various stressors, 876
Lymphocytes, development of histiocytes and macrophages from, 499
normal and stress, of intact and adrenalectomized mice, effect of graded amounts of epinephrine on, 485

M

Macroglobulin, amino acid composition of, investigations on, 261
Macrophages and histiocytes, development from lymphocytes, 499
Malaria, vivax, Korean, pentaquine and quinine in treatment of, 573
Manometers, improved resistance wire strain-gauge, adaptable for biologic measurements, 153
Manometric analysis of respiratory gases in blood containing volatile anesthetic agents; I. comparison of macromethods, 149
Megaloblastic anemia of pregnancy, folic acid therapy in, erythrocyte glycolytic rate and reticulocyte counts during, 923
Mephyton in treatment of hypoprothrombinemia and hypoproconvertinemia during pregnancy, 309
Mercaptans, antihypertensive properties of, and of other sulfur-containing compounds, 431
Metabolic studies in Wilson's disease using Cu^{64}, 623
Metabolism and transportation of iron, studies in; IX. excretion of iron as measured by isotope technique, 599
of radioyttrium (Y-90), influence of chelates on, 792
splanchnic, effect of subfebrile doses of bacterial pyrogens on, 568
Metabulator in measuring oxygen consumption, 109
Methylandrostenediol, synergism between somatotrophic hormone and, 237
Mice, intact and adrenalectomized, effect of graded amounts of epinephrine on normal and stress lymphocytes of, 485
Micrococcal nasal carrier state among hospital personnel, characteristics of, 935
Microdetermination, direct, of calcium in urine by nephelometry, 653
of corticosteroids with tetrazolium derivatives, 818
Milk diet, effect on serum vitamin B_{12} levels, 593
Mononucleosis, infectious, horse kidney in differential test for, 561
Mouse inoculation, isolation of Histoplasma capsulatum from fresh and deep-frozen peribronchial lymph nodes of dogs by, 303
Multiple myeloma, hepatic function in, 253
Myeloid tissue in normal and irradiated dogs, response to leukopheresis, 881
Myeloma, multiple, hepatic function in, 253
Myocarditis, effect of hypophysectomy on, 873
Myxedema, radioiodinated human serum albumin in, effect of thyroid hormone upon degradation rate and miscible pool of, 340

N

Nasal carrier state, micrococcal, among hospital personnel, characteristics of, 935
Neomycin, effect on gram-negative intestinal flora, 457
Nephelometry, direct microdetermination of calcium in urine by, 653
Neurath and treponemal immobilization tests and their correlation with routine serologic tests, comparison of, 778
reactions, types of, 780
Newborn, anti-D hemolytic disease of, in vitro studies of red cell fragility in, 135
Ninhydrin-isoamylamine complex, effect of variations in reaction media on formation of, 970

Nonprotein soluble sulfhydryl content of human leukocytes and erythrocytes in infection and leukemia, 119
Normal women, body composition and oxygen consumption of, 109
Nutrients, energy-yielding, blood glucose levels, and subjective appetite in man, study of interrelationship of, 684
Nutrition, intravenous, emulsified fat for, 697

O

Obesity, etiology of, 684
Oils, different, emulsions of, intravenous infusion, clinical experience with, 700
Overweight women, body composition and oxygen consumption of, 109
Oxygen consumption and body composition of overweight, normal, and underweight women, 109
Oxytetracycline and bacterial sensitivity, 541

P

Paper electrophoresis, calculation of proteins separated by, graphic method for conversion of transmission curves to corrected density curve for, 958
Paper-strip serum electrophoresis diagrams, correction of, 147
Para-aminobenzoic acid, effect on red blood cells, 32
Para-aminohippuric acid, synthesis of, glycine and, in "free anxiety" and hyperthyroidism, 357
Penicillin, effect on excretion of phenolic compounds, 87
excretion, 478
Pentaquine and quinine in treatment of Korean vivax malaria, 573
Perfusion studies of isolated young rat liver, 130
Periarteritis nodosa, effect of hypophysectomy on, 873
Peribronchial lymph nodes of dogs, isolation of Histoplasma capsulatum from, by mouse inoculation, 303
Pernicious anemia, intrinsic factor studies in, utilizing urinary radioactivity test, 926
Phenacetin, effect on red blood cells, 32
Phenolic compounds, excretion of, effect of antibiotics on, 87
Phenylbutazone in treatment of rheumatoid arthritis, value of, as determined by clinical response and by serum protein-polysaccharide ratio, 331
Phenylhydrazine, effect on red blood cells, 32
hemolytic crisis induced in dogs by, excretion of radioactive iron in, 606
in vitro Heinz body formation in erythrocytes by, 47
Phlebotomies, repeated, effects on iron metabolism in hemochromatosis, 167
Phthalylsulfathiazole, effect of, on gram-negative intestinal flora, 457
Piromen, effect of, in preventing tissue loss in rabbits due to gangrene induced by frostbite, 296
Pituitary growth hormone and cortisone, certain antagonistic actions of, 516
Plasma iron disappearance rates, effect of repeated phlebotomies on, 173
turnover, effect of repeated phlebotomies on, 169
rate of disappearance of Rb^{86} from, the biologic decay rates of Rb^{86}, and the applicability of Rb^{86} as a tracer of potassium in man with and without chronic congestive heart disease, 371
thromboplastin antecedent, properties of, in relation to blood coagulation, 123
volume and volume of packed red cells in dog, effect of acute renal failure on, 102
determination methods, comparison of, using radioiodinated human serum albumin and Evans blue dye (T-1824), 800
methods for study of, 841
dye method for estimating, simplified, 977
prediction of, methods for study of, 841
volumes, gravimetric technique for determination of, with radioiodinated human serum albumin, 648
Platelet counting, direct method for, with study of its accuracy, 641
production, dynamics of, as studies by depletion technique in normal and irradiated dogs, 906
Potassium, radiocesium as tracer of, in dogs, evaluation of, 313
Rb^{86} as tracer of, in man with and without congestive heart failure, 371
Pregnancy, hypoprothrobinemia and hypoproconvertinemia during, 308
megaloblastic anemia of, folic acid therapy of, erythrocyte glycolytic rate and reticulocyte counts during, 923
Presidential address, Central Society for Clinical Research, 27th annual meeting, Oct. 29, 1954, 3
Primaquine, effect on red blood cells, 32
hemolytic effect of; V. primaquine sensitivity as manifestation of multiple drug sensitivity, 30
VI. in vitro test for sensitivity of erythrocytes to primaquine, 40
VII. biochemical studies of drug-sensitive erythrocytes, 286
in vitro Heinz body formation in erythrocytes by, 47
sensitivity as manifestation of multiple drug sensitivity, 30
of erythrocytes to, in vitro test for, 40

Primary aldosteronism, a new clinical syndrome, 3
progress report, 661
amines, studies on; III. limiting and optimum conditions for quantitative determination by the ninhydrin methods, 963
Probenecid and salicylates, question of interaction in terms of penicillin excretion, 478
excretion of, 478
Progress report: primary aldosteronism, 661
Promizole, effect on red blood cells, 34
Protein fractions of dog plasma, changes in, after bleeding and dextran infusion, 61
Proteins separated by paper electrophoresis, calculation of, graphic method for conversion of transmission curves to corrected density curve for, 958
Purpura, idiopathic thrombocytopenic, dissociation of coagulation abnormalities in, 583
thrombocytopenic, caused by hypersensitivity to quinine, 18
Pyribenzamine, effect in reducing reactions to infusions of emulsified fat, 706
Pyrogen, intravenous, in adrenalectomized mice, lymphocyte counts following, 878
Pyromen, effect on splanchnic metabolism and cardiac output, 568

Q

Quantitative determination of primary amines by ninhydrin method, limiting and optimum conditions for, 963
Quinine and pentaquine in treatment of Korean vivax malaria, 573
hypersensitivity to, thrombocytopenic purpura caused by, 18

R

Rabies vaccine made from embryonated duck eggs, clinical and laboratory results with, 679
Radioactive chromium, tagging of leukemic leukocytes with, and measurement of in vivo cell survival, 717
iron, excretion of, in feces, 601
label of albumins, gamma globulins, and globulins of intermediate mobility, persistence in blood of, 51
rose bengal uptake-excretion test for liver function using external gamma-ray scintillation counting techniques, 665
rubidium, Rb^{86}, rate of disappearance from plasma, biologic decay rates, and applicability as tracer of potassium in man with and without congestive heart failure, 371
study of use as tracer for measurement of Rb^{86} and K^{39} space and mass in intact man with or without congestive heart failure, 395
Radioactivity, tissue assay for, improved method of, 66
Radiocesium, biologic decay rates and excretion of, with evaluation as tracer of potassium in dogs, 313
Radioiodinated human serum albumin and Evans blue dye, comparison of routine plasma volume determination methods using, 800
determination of plasma volumes with, gravimetric technique for, 648
in myxedema, effect of thyroid hormone upon degradation rate and miscible pool of, 340
Radioiron studies in hemochromatosis, effects of repeated phlebotomies, 167
Radiopotassium, K^{42}, radiorubidium, Rb^{86}, and potassium, sodium, and chloride, excretion by man with and without congestive heart failure, 408
Radiorubidium, Rb^{86}, radiopotassium, K^{42}, and potassium, sodium, and chloride, excretion by man with and without congestive heart failure, 408
Radioyttrium (Y-90), metabolism of, influence of chelates on, 792
Rat liver, isolated, young, perfusion studies of, 130
Rb^{86}, rate of disappearance from plasma, biologic decay rates, and applicability as tracer of potassium in man with and without chronic congestive heart failure, 371
study of use of, as tracer for measurement of Rb^{86} and K^{39} space and mass in intact man with and without congestive heart failure, 395
Red cell fragility in anti-D hemolytic disease of newborn, in vitro studies of, 135
turnover and percentage red cell utilization, effect of repeated phlebotomies on, 173
cells, primaquine-sensitive, effects of eight aniline derivatives on, 32
Reducing diets, satiety value of, 687
Renal disease, experimental, hormonal factors in production of, 237
failure, acute, effect on plasma volume and volume of packed red cells in dog, 102
hemodynamics and water and electrolyte excretion in hypertension, effect of head-up tilted position and ambulation on, with and without renal damage, 179
Resistance wire strain-gauge manometers adaptable for biologic measurements, improved, 153
Respiratory gases in blood containing volatile anesthetic agents, manometric analysis of; I. comparison of macromethods, 149

Reticuloendothelial system blockade, effect of, on pattern of rose bengal uptake and excretion, 672
Rheumatoid arthritis, phenylbutamone in treatment of, value as determined by clinical response and by serum protein-polysaccharide ratio, 331
Roentgenoscope in end systole or end diastole of heart action, instrument for actuating, 489
Rose bengal uptake-excretion test, radioactive, for liver function, using external gamma-ray scintillation counting techniques, 665

S

Salicylate, inhibition of uricosuric action of Benemid by, 771
Salicylates, probenecid and: question of interaction in terms of penicillin excretion, 478
Saline, intravenous, in adrenalectomized mice, lymphocyte counts following, 877
Saliva, appearance of tracer iron in, 610
Salmonella typhi, in vitro activity of chloramphenicol on, 97
Seitz filtration, effect on plasma thromboplastin antecedent activity, 126
Seminal fluids from fertile and infertile men, repeated, desoxyribose nucleic acid content in spermatozoa of, 851
Sensitivity, drug, multiple, primaquine sensitivity as manifestation of, 30
of erythrocytes to primaquine, in vitro test for, 40
primaquine, manifestation of multiple drug sensitivity, 30
Serum, albumin concentration of, and its dye-binding capacity, relationship between, 740
and liver lipids in patients with and without liver disease, 363
concentrations of vitamin B_{12} in normal and nutritionally deficient monkeys, 590
electrophoresis, paper-strip diagrams, correction of, 147
of insulin-resistant patient, localization of insulin-neutralizing factor by zone electrophoresis in, 765
Skin reactivity of antigens from yeast phase of Histoplasma capsulatum, 449
Snake venom, protective effect of carbon-free fraction of India ink against, 580
Somatotrophic hormone and methylandrostenediol, synergism between, 237
Soybean oil, C^{14}-labeled, emulsion, intravenously administered in rats, effect of heparin on distribution of, 786
Space and mass, Rb^{86} and K^{39}, measurement in intact man with and without congestive heart failure, use of Rb^{86} as tracer for, 395
Spermatozoa, desoxyribose of nucleic acid content in repeated seminal fluids from fertile and infertile men, 851
Splanchnic metabolism and cardiac output, effect of subfebrile doses of bacterial pyrogens on, 568
STH and cortisone, certain antagonistic actions of, 516
Storage, effect on plasma thromboplastin antecedent activity, 124
Streptomycin and bacterial sensitivity, 541
Stress lymphocytes, lymphocytosis of, 876
Subfebrile doses of bacterial pyrogens, effect on splanchnic metabolism and cardiac output, 568
Succinylsulfathiazole, effect on gram-negative intestinal flora, 457
Sulfa drugs, nonabsorable, effect on gram-negative intestinal flora, 457
Sulfanilamide, effect on red blood cells, 32
Sulfanilamide-induced anemia followed by primaquine insensitivity, 35
Sulfasuxidine, effect on gram-negative intestinal flora, 457
Sulfhydryl, nonprotein soluble, in human leukocytes and erythrocytes in infection and leukemia, 119
Sulfur-containing compounds, antihypertensive properties of, 431
Sweat, excretion of radioactive iron in, 608
Synthesis of para-aminohippuric acid, glycine and, in "free anxiety" and hyperthyroidism, 357
Syphilis, comparison of Neurath and treponemal immobilization tests, and their correlation with routine serologic tests for, 778
complement fixation tests and antistreptolysin "O" titrations, large series of, rapid and simple method for, 323
Neurath euglobulin-inhibition test, 779
treponema pallidum immobilization test for, 779

T

Tagging of leukemic leukocytes with radioactive chromium and measurement of in vivo cell survival, 717
Temperature, effect on periodate agglutinin determinations, 633
on plasma thromboplastin antecedent activity, 124
Terramycin, effect on excretion of phenolic compounds, 87
on gram-negative intestinal flora, 457
Tetrazolium derivatives, microdetermination of corticosteroids with, 818
Thiosulfate ion, determination of extracellular fluid volume with, simplified method, 973
Thrombocytopenic purpura caused by hypersensitivity to quinine, 18
Thrombocytopheresis, technique of, 906

Thyroid activity, creatinine ratio of urinary pigment as measure of basal metabolic rate and, 352
gland, uptake of iodine by, lack of effect of fluorine ingestion on, 348
hormone, effect upon degradation rate and miscible pool of radioiodinated human serum albumin in myxedema, 340
Tissue assay for radioactivity, improved method of, 66
binding of hydrocortisone, 833
loss in rabbits due to gangrene induced by frostbite, effect of Piromen in preventing, 296
Titrations, antistreptolysin "O" and complement fixation tests, large series of, rapid and simple method for, 323
Toluidine blue therapy of hyperheparinemia, 731
Toxicity of rose bengal in rabbits, 669
Tracer iron, appearance of, in saliva and hair clippings, 610
of potassium in dogs, evaluation of radiocesium as, 313
Tralgon, effect on red blood cells, 33
Transmission of infections in mass immunization campaigns, "anti-infection cannula" for syringes to prevent, 141
Treponema pallidum immobilization test for syphilis, 779
Treponemal and Neurath immobilization tests and their correlation with routine serologic tests, comparison of, 778
Trichloracetic acid in extraction of amino acids from urine, 215
Tubercle bacilli, rapid cultivation of, chick embryo as medium for, 658
Tuberculosis, isonicotinyl hydrazide of glucuronolactone in treatment of, 711

U

Ultraviolet absorption, identification of barbiturates by, 806
Underweight women, body composition and oxygen consumption of, 109
Uricosuric action of Benemid, inhibition of, by salicylate, 771
Urinary deuterium oxide concentrations, use of, in simple method for measuring total body water, 759
excretion of radioactive copper in Wilson's disease, 626
phenol excretion, effect of antibiotics on, 87
pigment, use of: creatinine ratio as measure of basal metabolic rate and thyroid activity, 352
radioactivity test in achlorhydria, pernicious anemia, or total gastrectomy, intrinsic factor studies utilizing, 926
vitamin B_{12} activity following intranasal administration, 474
Urine, calcium in, direct microdetermination of, by nephelometry, 653
extract blanks and nonketonic chromogens, behavior of, with respect to Beer's law, 200
extraction of amino acid-containing substances from, 215
extracts, effects of Girard procedure on crude, 197
lead in, rapid procedure for determination of, in presence of organic chelating agents, 159

V

Vaccine, antirabies, new, for human use, 679
rabies, made from embryonated duck eggs, clinical and laboratory results with, 679
Viral hepatitis, serum and liver lipids in, 369
Vitamin B_{12} activity, urinary, following intranasal administration, 474
serum concentrations of, in normal and nutritionally deficient monkeys, 590
K deficiency during pregnancy, 308
Volatile anesthetic agents, blood containing, manometric analysis of respiratory gases in, 149

W

Warburg calibrator, a simple, 822
Water, body, total, deuterium oxide and antipyrine dilution methods for measuring, comparison of, in normal and hydropic human subjects, 748
simple method for measuring, using urinary deuterium oxide concentrations, 759
excretion in hypertension, effect of head-up tilted position and ambulation on renal hemodynamics and, with and without renal damage, 179
Weight, loss of, on isocaloric reducing diets, 692
Wilson's disease, metabolic studies in, using Cu^{64}, 623
Women, overweight, normal, and underweight, body composition and oxygen consumption of, 109

Y

Y-90, metabolism of, influence of chelates on, 792

Z

Zone electrophoresis localization of insulin-neutralizing factor in serum of insulin-resistant patient, 765

The Journal of Laboratory and Clinical Medicine

EDITOR
WILLIAM D. ROBINSON, M.D.

ASSOCIATE EDITOR
WILLIAM H. BEIERWALTES, M.D.

University Hospital
University of Michigan Medical School
1313 Ann Street, Ann Arbor, Michigan

BOARD OF EDITORS

S. HOWARD ARMSTRONG, JR., M.D.
University of Illinois, Chicago

FRANK H. BETHELL, M.D.
University of Michigan, Ann Arbor

RICHARD B. CAPPS, M.D.
Northwestern University Medical School, Chicago

A. C. CORCORAN, M.D.
Cleveland Clinic, Cleveland

ELMER L. DEGOWIN, M.D.
State University of Iowa, Iowa City

RICHARD V. EBERT, M.D.
University of Arkansas, Little Rock

WENDELL H. HALL, M.D.
University of Minnesota, Minneapolis

LEON O. JACOBSON, M.D.
University of Chicago, Chicago

OLIVER H. LOWRY, M.D.
Washington University, St. Louis

W. A. SODEMAN, M.D.
University of Missouri, Columbia

RANDALL G. SPRAGUE, M.D.
Mayo Clinic, Rochester

RICHARD W. VILTER, M.D.
University of Cincinnati, Cincinnati

VOLUME 45
JANUARY—JUNE, 1955

ST. LOUIS
THE C. V. MOSBY CO.
1955

Medical Library
610.5
J86
L12
v. 45

COPYRIGHT, 1955, BY THE C. V. MOSBY CO.

(All rights reserved)

Printed in the
United States of America

Press of
The C. V. Mosby Comp
St. Louis